## SIEMENS

## Data sheet

## 3RR2143-3AA30

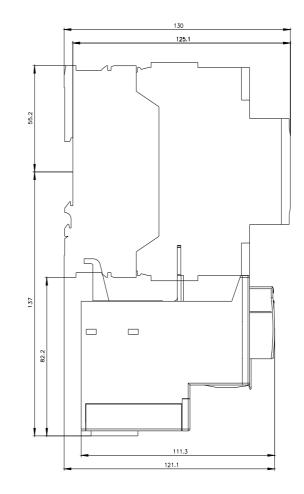


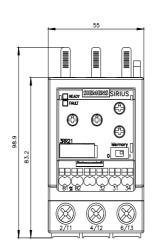
Monitoring relay, can be mounted to Contactor 3RT2, Size S2 basic, analog adjustment Apparent current monitoring 8...80 A, 50...60 Hz, 2-phase Supply 24 V AC/DC 1 change-over contact Monitoring for Current overshoot and undershoot Phase failure, Cable break with or without fault buffer ON delay 0-60 s Noise pulse suppression 0-30 s Switching hysteresis 6% spring-type connection system

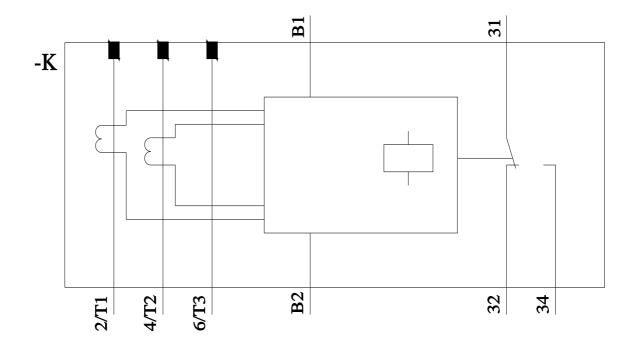
product brand name	SIRIUS				
product designation	Monitoring relays				
design of the product	analogically adjustable, 2-phase current monitoring				
product type designation	3RR2				
General technical data					
size of contactor can be combined company-specific	S2				
operating apparent power rated value	4 VA				
insulation voltage for overvoltage category III according to IEC 60664					
<ul> <li>with degree of pollution 3 rated value</li> </ul>	690 V				
surge voltage resistance rated value	6 kV				
consumed current at 24 V	90 mA				
protection class IP					
• on the front	IP20				
of the terminal	IP00				
shock resistance	10g / 11 ms				
mechanical service life (operating cycles) typical	10 000 000				
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000				
reference code according to IEC 81346-2	К				
relative repeat accuracy	2 %				
Substance Prohibitance (Date)	03/01/2017				
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8				
Supply voltage					
type of voltage of the supply voltage	AC/DC				
supply voltage 1 at AC					
• at 50 Hz rated value	24 V				
• at 60 Hz rated value	24 V				
supply voltage 1 at DC rated value	24 V				
supply voltage frequency 1	50 60 Hz				
Measuring circuit					
type of current for monitoring	AC				
adjustable current response value current					
• 1	8 80 A				
• 2	8 80 A				
adjustable response delay time					
when starting	0 60 s				
<ul> <li>with lower or upper limit violation</li> </ul>	0 30 s				
Precision					
temperature drift per °C	0.1 %/°C				

Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary	fuse gG: 4 A
switch required	
Communication/ Protocol	
protocol is supported IO-Link protocol	No
type of voltage supply via input/output link master	No
Auxiliary circuit	
number of CO contacts	
<ul> <li>for auxiliary contacts</li> </ul>	1
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 230 V	3 A
• at 400 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
contact rating of auxiliary contacts according to UL	B300 / R300
Main circuit	
operating power rated value	2.5 W
ampacity of the semiconductor output in SIO mode	20 mA
operational current at 17 V minimum	5 mA
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC immunity according to IEC 60947-1	ambience A (industrial sector)
Connections/ Terminals	
product component removable terminal for main circuit	No
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )
• stranded	2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	4 50 mm2
solid or stranded	1 50 mm <sup>2</sup>
finely stranded with core end processing	1 35 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	$1 \times (0.5 - 4 \text{ mm}^2) \times (0.5 - 2.5 \text{ mm}^2)$
— solid	1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )
<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)
<ul> <li>Inters stranded without core and processing</li> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (0.25 1.5 mm <sup>-</sup> ) 2x (24 16)
• for AVVG cables for auxiliary contacts     AWG number as coded connectable conductor cross section for	2X (24 16) 18 1
main contacts	
tightening torque with screw-type terminals	0.8 1.2 N·m
Installation/ mounting/ dimensions	
mounting position	any
fastening method	direct mounting
height	99 mm
width	55 mm
depth	112 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	10 mm
— at the side	0 mm

<ul> <li>for grounded part</li> </ul>	ts					
— forwards		10 m	m			
— backwards		0 mn	ı			
— upwards		10 m	m			
— at the side		10 m	m			
— downwards		10 m	m			
<ul> <li>for live parts</li> </ul>						
- forwards		10 m	m			
- backwards		0 mn				
— upwards		10 mm				
<ul> <li>downwards</li> </ul>		10 mm				
— at the side		10 m	10 mm			
Ambient conditions						
installation altitude at he	eight above sea level max	mum 2 000	) m			
ambient temperature						
during operation		-25	+60 °C			
during storage			+80 °C			
		-40	+60 C			
Approvals Certificates						
General Product App	roval			EMC	Declaration of Con- formity	
	Confirmation	-		•	1.112	
(m)	Commation	Ē	гпг		UK	
(m)			FHI	<u>(</u> )	20	
CCC		UL	<b>F11P</b>	RCM	LH	
Declaration of Con-	Test Certificates		Marine / Shipping			
formity						
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Marine / Shipping		other				
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	DNV-GL					
RINA	Devolution					
Further information						
	to exit the Russian mark	et (see here)				
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business						
Siemens is working on the renewal of the current EAC certificates.						
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an						
EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).						
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875						
Information- and Downloadcenter (Catalogs, Brochures,)						
https://www.siemens.com/ic10						
Industry Mall (Online ordering system)						
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RR2143-3AA30						
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RR2143-3AA30						
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RR2143-3AA30 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
http://www.automation.s	http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RR2143-3AA30⟨=en					
Characteristic: Deratir	ng					
https://support.industry.	siemens.com/cs/ww/en/ps	/3RR2143-3AA30/manua	<u>al</u>			







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